

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-021453**Date Inspected:** 03-Feb-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1500**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name:	N/A			CWI Present:	Yes	No	
Inspected CWI report:	Yes	No	N/A	Rod Oven in Use:	Yes	No	N/A
Electrode to specification:	Yes	No	N/A	Weld Procedures Followed:	Yes	No	N/A
Qualified Welders:	Yes	No	N/A	Verified Joint Fit-up:	Yes	No	N/A
Approved Drawings:	Yes	No	N/A	Approved WPS:	Yes	No	N/A
				Delayed / Cancelled:	Yes	No	N/A
Bridge No:	34-0006			Component:	OBG Components		

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector, S.Chandrakumar was present during the times noted above for observations relative to the work being performed.

This Quality Assurance Inspector reviewed the contract document, shop drawing, verified weld maps and also reviewed the work procedures.

Description of VT Observation:

During the Quality Assurance random visual inspection of welds located on Floor beam, deck panel diaphragm welds of OBG Segment 13BW, this Quality Assurance Inspector (QA) observed the following issues;

- Linear Longitudinal Indications measuring approximately 200mm in lengths and punctured/burn through.
- After back gouging, these indications were discovered visually and confirmed by Magnetic particle Testing (MT) by ZPMC MT personnel.
- The indications are clearly marked on the material near the weld for further repair. The weld number is identified as SEG3014B-001. The panel point is identified as a PP122.
- This weld is a CJP weld joining the Deck Panel Diaphragm to Deck Panel Diaphragm.
- The Deck Panel Diaphragm to Deck Panel Diaphragm weld is identified as Seismic Performance Critical Member (SPCM).
- The cracks are completely removed and re-weld shall be performed as per required contract document and approved WPS. For further information, Please see attached pictures.

Description of VT Observation:

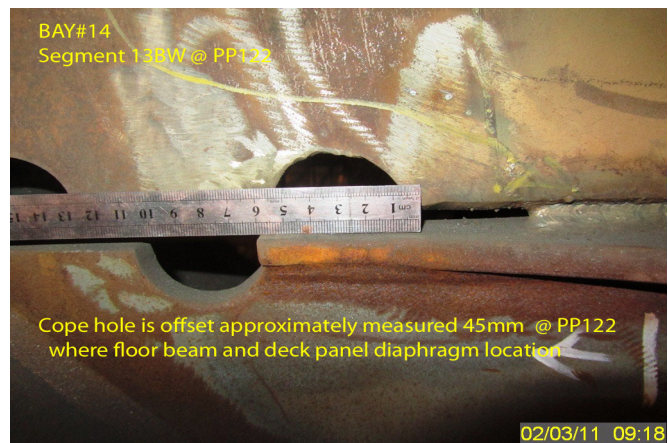
WELDING INSPECTION REPORT

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During the Quality Assurance random visual inspection of welds located on Floor Beam at panel point 122 bike path side of Segment 13BW, this Quality Assurance Inspector (QA) observed the following issues;

- Offset in a cope hole located at Floor beam to Deck Panel Diaphragm.
- The offset is measured approximately 45mm in length.
- The floor beam number is identified as FB3204A and Deck Panel is identified as DP3137A.
- Floor Beam and Deck Panel Diaphragm are identified as Seismic Performance Critical Member (SPCM). OBG
- Segment 13BW is located West Side of Bay 14 area.
- According to the contract document ZPMC personnel need to submit Critical Weld Repair to the engineer prior to weld repair. For further information, Please see the attached pictures.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



Summary of Conversations:

No relevant Conversation.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang-15--0042-2372, who represents the Office of Structural Materials for your project.

Inspected By:	Kumar,Chadra	Quality Assurance Inspector
Reviewed By:	Patel,Hiranch	QA Reviewer
